

WHAT IS CLAIMED IS:

Sub A2 1. A building material with a solar cell comprising a solar cell unit fixed to a substrate, and an electrical conductive lead for leading output from the solar cell unit to the outside, wherein the electrical conductive lead is composed of at least one selected from the group consisting of polyethylene resins, polyamide resins, vinylidene fluoride resins, chloroprene rubber, ethylene-propylene rubber, silicone resins, and fluororesins,.

2. A building material according to Claim 1, wherein the substrate is composed of at least one selected from the group consisting of metals, resins and glass.

Sub A3 3. A building material according to Claim 1, further comprising a connector provided at the end of the electrical conductive lead and composed of at least one selected from the group consisting of polyethylene resins, polyamide resins, vinylidene fluoride resins, chloroprene rubber, ethylene-propylene rubber, silicone resins, and fluororesins.

4. A cladding assembly comprising:  
a plurality of building materials with solar cells each of which comprises a solar cell unit fixed to a substrate,

and is fixed on a backing material by a fixing member; and electrical conductive leads arranged between the building materials and the backing material to contact the backing material, for leading output from the solar cell units to the outside;

wherein a jacket material of each of the electrical conductive leads is composed of at least one selected from the group consisting of polyethylene resins, polyamide resins, vinylidene fluoride resins, chloroprene rubber, ethylene-propylene rubber, silicone resins, and fluororesins; and the backing material contains any one of asphalt resins, vinyl chloride resins, polystyrene resins, and polyurethane resins.

5. A cladding assembly according to Claim 4, wherein the substrate is composed of at least one selected from the group consisting of metals, resins and glass.

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cr7 6. A cladding assembly according to Claim 4, further comprising a connector provided at the end of each of the electrical conductive leads and composed of at least one selected from the group consisting of polyethylene resins, polyamide resins, vinylidene fluoride resins, chloroprene rubber, ethylene-propylene rubber, silicone resins, and fluororesins.

7. A cladding assembly according to Claim 4, further comprising a spacer member provided between the building materials and the backing material.

8. A cladding assembly according to Claim 4, wherein the plurality of building materials are arranged on the backing material so that the adjacent building materials are electrically connected by the electrical conductive leads.

9. A method of installing a building material:  
fixing a plurality of building materials with solar cells each comprising a solar cell unit fixed to a substrate on a backing material by a fixing member; and

arranging an electrical conductive lead between the corresponding building material and the backing material to bring the electrical conductive lead into contact with the backing material, for leading output from each of the solar cell units to the outside;

wherein a jacket material of the electrical conductive lead is composed of at least one selected from the group consisting of polyethylene resins, polyamide resins, vinylidene fluoride resins, chloroprene rubber, ethylene-propylene rubber, silicone resins, and fluororesins, and the backing material contains any one of asphalt resins, vinyl

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~~chloride resins, polystyrene resins, and polyurethane resins.~~

10. A method of installing a building material according to Claim 9, further comprising providing a spacer member between the building materials and the backing material.

11. A method of installing a building material according to Claim 9, further comprising arranging the plurality of the building materials on the backing material, and electrically connecting the electrical conductive leads of the adjacent building materials.

12. An air flowing apparatus comprising:  
a building material with a solar cell which comprises a solar cell unit fixed to a substrate and which is fixed to a backing material with a space therebetween so that outside air flows in the space, passes through the space and is entrapped in a house or discharged to the outdoors; and  
an electrical conductive lead arranged between the building material and the backing material to contact the backing material, for leading output from the solar cell unit to the outside;

wherein a jacket material of the electrical conductive lead is composed of at least one selected from the group

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the research and the objectives of the study.

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13. A power generator comprising a building material according to Claim 1, and a power inverter.